Model: XSD10Z-2

True Day/Night 550/600 TVL Vandal Resistant Mini Speed Dome CCTV Camera with 10x Optical Zoom

PLEASE READ THIS MANUAL BEFORE YOU INSTALL OR START USING THE XSD10Z-2 SPEED DOME

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at the user's own expense.

PRECAUTIONS:

- Only qualified and experienced person can carry out the installation. In many countries and areas licensed personnel is required
- Always take safety codes into consideration during installation.
- Use reliable tools only, poor quality tools may cause damage to both human and property
- Check the strength of all items onsite that are related to installation in advance. It is recommended that the stand of dome be at least 4 times stronger than the weight of the dome and its accessories.
- Keep all the original dome package materials in case of future repacking and transportation.
- Choose and install speed dome according to environment requirement (Refer to the Product Features).

WARNINGS:

- Avoid installing this speed dome in hazardous places where inflammable or explosive materials are stored or used.
- This speed dome runs on 12V DC, 800mA.
- Connect to power only after completing installation.
- Disassembling of the camera can only be carried out by qualified personnel.
- Use soft towel to clean the down cover when necessary. Avoid using caustic detergent.
- Avoid aiming camera to strong light.

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1. Product Description

The XSD10Z-2 is a Professional True Day/Night Speed Dome with 10x Zoom with Mechanical IR Filter (making it IR sensitive for use with Infra Red lighting). This camera is designed for use in very high risk applications where very high quality surveillance is required and features an Xvision Auto Iris Zoom Lens with Semi-Auto or Auto Focus and 100x Zoom (10x Optical + 10x Digital) for easy selection of any viewing angle between 10 and 71°. It can be panned, tilted and zoomed in seconds to the view required.

It is ideal for covering large areas and for viewing objects that are far away from the camera or for viewing moving objects that are at varying distances from the camera thanks to its 10x Optical zoom and auto focus function. The camera has an RS485 connection allowing the Pan, Tilt, Zoom, Focus and On Screen Display set up of its features to be controlled remotely by any DVR or Controller that supports Pelco D/P. It is weatherproof allowing it to be used internally or externally.

A variety of brackets are available for the camera depending on how and where you wish to mount it. Mounting options include Ceiling Mount (as supplied), Wall Mount, Corner and Pole Mount (additional brackets required).

2. Features

- True Day/Night Camera with Sony 1/4" Super HAD CCD and Xvision XX1 DSP Software
- Offers High Resolution 550/600 TVL images
- Features 3.8 to 38.0mm Auto Iris Zoom Lens for 10 to 71° adjustable angle of view
- Zoom Magnification :×10 Optical Zoom,×10 Digital Zoom (Max×100 Zoom)
- Supports various Focus Modes : Auto-Focus / Manual Focus / Semi-Auto Focus.
- Vector Drive Technology and Hi-accuracy motor drives with 0.05 degree preset accuracy per second, without any vibration.
- Pan Range: 360°(Endless), Tilt Range: 180°(Auto-Flip), 95° (Normal)
- 0.05~360°/sec manual Pan/Tilt Speed
- 1~180°/sec Swing speed
- Supports up to 128 presets. The characteristics of each preset can be set up independently.
- Up to 8 Pan Actions can be stored. This enables to move camera repetitively between two preset positions with a designated speed.
- Up to 4 Patterns can be recorded and played back. This enables to move camera to follow any trajectory operated by joystick. Up to 1200 commands per pattern can be stored.
- Up to 8 group actions can be stored. This enables to move camera repetitively with combination of Preset or Pattern or Swing. A Group is composed of up to 20 entities of Preset/Pattern/Swings.
- Up to 4 Privacy Zones are assignable.
- 4 Alarm Sensor inputs are available for the camera to move to a corresponding Preset position if triggered. The alarm sensor Input is de-coupled with photo coupler to reject external electric noise and shock.
- With RS485 communication, up to 255 cameras can be controlled at the same time.
- Pelco-D or Pelco-P protocol can be selected as a control protocol in the current version of firmware.
- On-Screen Display Menu for Programmable Functions and to display the status of camera
- OSD Menu can be customized to suit user
- Designed for Flush/Surface ceiling mounting as supplied
- Wall, Pole Mount and Corner Mount brackets also available.
- Suitable for internal or external use.

3. Installation

3.1 CONTENTS

- XSD10Z-2 Dome
- Installation Bracket
- 2.5mm Flat Head Screw Driver
- Allun Key
- Opening Tool
- 4x Wall Plugs and Screws - for ceiling mount

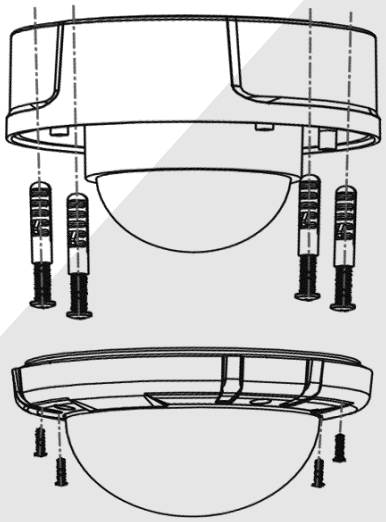
3.2 INSTALLATION

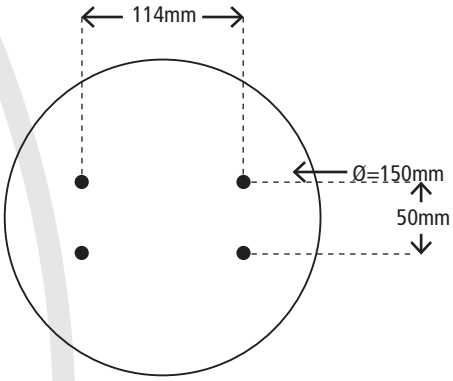
1. Dismantle the lower cover components of the transparent dome cover with Allun Key

2. Drill holes in the ceiling according to the mounting hole position and install the plastic anchor.

3. Feed the control cable, video cable and power cable through the ceiling

4. Fix the dome base and the transparent dome cover, screw tightly to complete the installation as shown below.





Installation Holes

3.3 WALL MOUNTING GUIDE

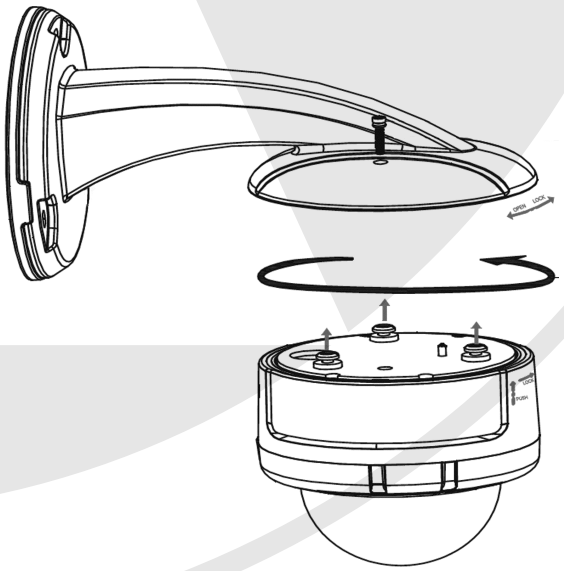
NOTE: THE WALL MOUNT IS NOT SUPPLIED WITH THE XSD10Z-2.

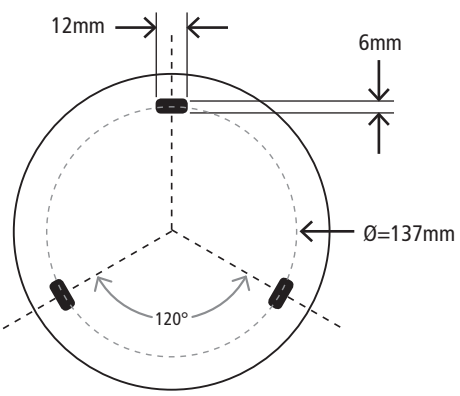
1. Drill holes on the wall using the mounting hole position, and install the plastic anchor to the wall mount.

2. Feed the control cable, video cable and power cable through the wall bracket cavity

3. Align the dome camera to the bracket's holes then rotate the dome camera clockwise and fix the backstop screw.

4. Feed the control cable, video cable and power cable through the wall hole and fix the bracket using the screws and wall plugs supplied.





Wall Bracket Installation Holes

4. DIP Switch Setup

Before you install the camera, you should set the DIP switches to configure the camera ID and communication protocol.

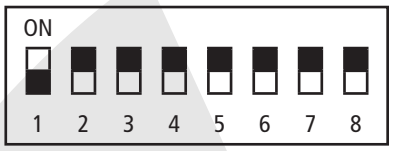
COMMUNICATION PROTOCOL

OPTIONS

PIN	1	2	3	4
FUNCTION	PROTOCOL		N/P	ON
ON	Refer to the Manual		PAL	Reserve
OFF			NTSO	

CAMERA ID

ADDRESS (ID)



PIN	1	2	3	4	5	6	7	8
FUNCTION	A0	A1	A2	A3	A4	A5	A6	A7
ON	1	2	4	8	16	32	64	128
OFF	0	0	0	0	0	0	0	0

4.1 COMMUNICATION PROTOCOL SETUP

- Select the appropriate Protocol with DIP switch combination

SWITCH STATE		3
P0 (PIN 1)		P1 (PIN 2)
OFF	OFF	PELCO_D, 2400 bps
ON	OFF	PELCO_D, 9600 bps
OFF	ON	PELCO_P, 4800 bps
ON	ON	PELCO_P, 9600 bps

- If you want to control using DVR or P/T controller, their protocol must be identical to camera. Otherwise, you can not control the camera.
- If you changed camera protocol by changing DIP switch, the change will be effective after you reboot the camera.
- The factory default of protocol is **Pelco-D, 2400 bps**

4.2 CAMERA ID SETUP

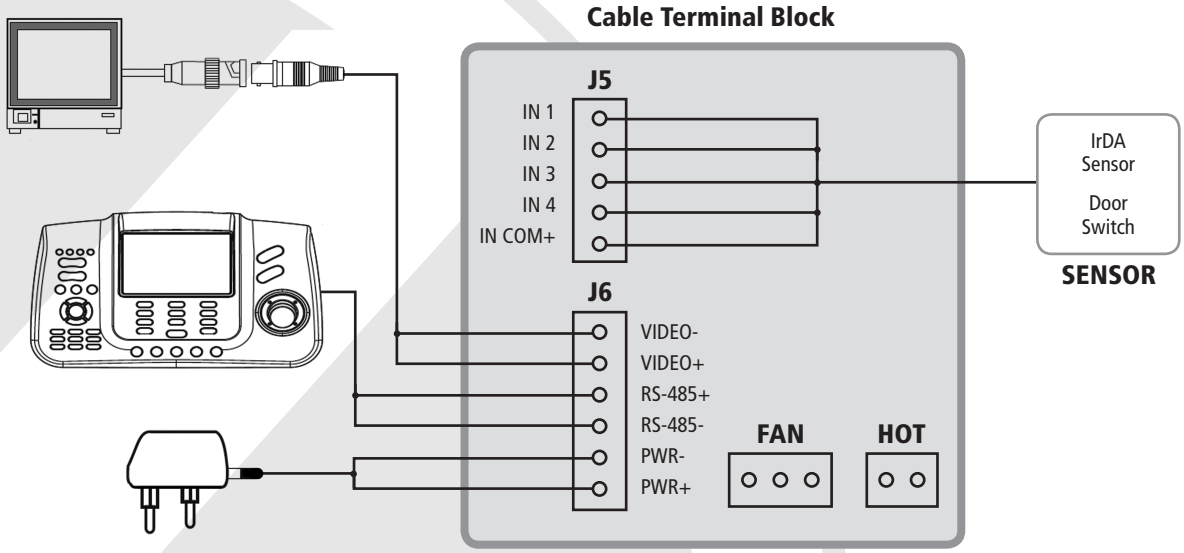
- ID number of camera is set using binary number. The example is shown bellow.
- The range of ID is 1~255. **Do not use 0 as camera ID.** Factory default of Camera ID is 1.
- **If you want to control a certain camera, you must match the camera ID with Cam ID setting of DVR or Controller.**

4.3 RESERVED FOR SUPPLIER

- Since Pin 3 and Pin 4 are only for the supplier. Do not change their original state. If you change one of these, full operation cannot be achieved
- **Pin 3** - PAL / NTSC system selection of Camera. Do not change this pin.
- **Pin 4** - Factory default is ON state. This pin is used for system firmware upgrade. Do not change this pin .

5. Cabling

Before you install the camera, you should set the DIP switches to configure the camera ID and communication protocol.



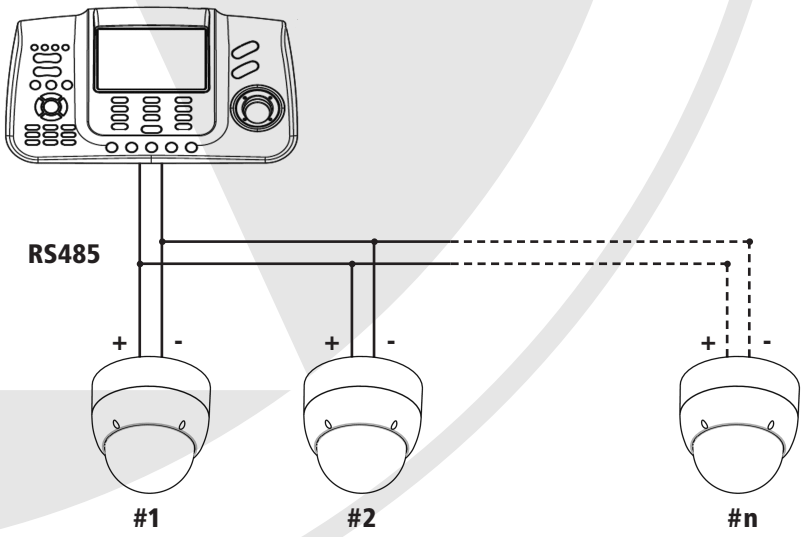
5.1 POWER CONNECTION

- Please check the voltage and current capacity of rated power carefully.
- Rated power is indicated in the back of main unit.

POWER	INPUT VOLTAGE RANGE	CURRENT CONSUMPTION
12V	11-18V DC	0.8A

5.2 CAMERA ID SETUP

- For PTZ control, connect the cabling to the keyboard and DVR.
- To control multiple cameras at the same time, they should be connected in a parallel circuit as shown below.

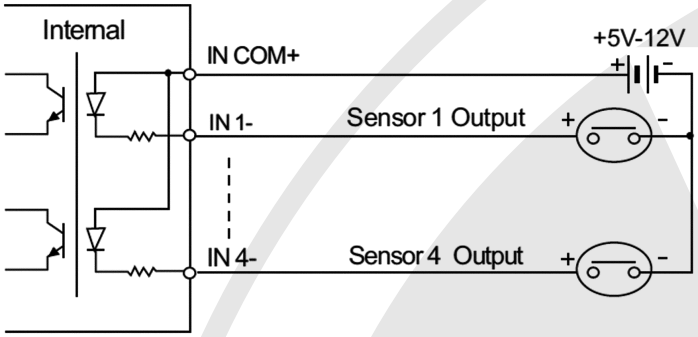


5.3 VIDEO CONNECTION

- Connect with BNC Coaxial Cable

5.4 ALARM INPUT CONNECTION (Optional)

- Sensor Input



Before connecting sensors, check driving voltage and output signal type of the sensor. Since output signal types of the sensors are divided into Open Collector and Voltage Output type in general,the cabling must be done properly after considering these typed.

SIGNAL	DESCRIPTION
IN COM+	Connect (+) cable of electric power source for Sensors to this port as shown in the circuit above.
IN1-, IN2-, IN3-, IN4-	Connect output of sensors for each port as shown in the circuit above.

If you want to use Alarm Input,the types of sensor must be selected in OSD menu. The sensor types are Normal Open and Normal. It sensor type is not selected properly, the alarm can be activated reversely.

Normal Open	Output Voltage is high state when sensor is activated
Normal Close	Output Voltage is high state when sensor is not activated

6. Operation

Check points before operation

- Before power is applied, please check the cables carefully.
- The camera ID of the controller must be identical to that of the target camera. The camera ID can be checked by reading the DIP switch of the camera.
- If your controller supports multi-protocols, the protocol must be changed to match to that of the camera.
- If you changed camera protocol by changing DIP switch the change will be effective after you reboot the camera
- Since the operation method can be different for each controller available refer to the manual for your controller if camera can not be controlled properly. The operation of this manual is based on the standard Pelco R Controller.

Preset and pattern Function Pre-Check

- Check how to operate the preset and pattern functions with controller or DVR in advance to operate camera functions fully when using controller or DVR.
- Refer to the following table when using standard Pelco protocol controller.

<Go Preset>	Input [Preset Number] and press [Preset] button.
<Set Preset>	Input [Preset Number] and press [Preset] button for more than 2 seconds.
<Run Pattern>	Input [Pattern Number] and press [Preset] button.
<Set Pattern>	Input [Pattern Number] and press [Preset] button for more than 2 seconds.

- If controller or DVR has no pattern button or function, use the shortcut keys with preset numbers. For more information, refer to 'Reserved Preset' in this manual.

6.1 STARTING OSD MENU

Using the OSD menu, Preset, Pattern, Swing, Group and Alarm Input function can be configured for each application.

- Enter Menu - <Go Preset>[95]

6.2 RESERVED PRESET

Some Preset numbers are reserved to special functions.

<Go Preset> [95]	:Enters into OSD menu
<Go Preset> [131~134]	:Runs Pattern Function 1~4
<Go Preset> [141-148]	:Runs Swing Function 1~8
<Go Preset> [151-158]	:Runs Group Function l~8
<Go Preset> [161-162]	:Sets Relay Output 1 ~ 2 to OFF
<Set Preset>[161-162]	:Sets Relay Output l ~ 2 to ON
<Go Preset> [170]	:Sets Camera BLC Mode to OFF
<Go Preset> [17 1]	:Sets Camera BLC Mode to ON
<Go Preset> [174]	:Sets Camera Focus Mode to AUTO
<Go Preset> [175]	:Sets Camera Focus Mode to Manual
<Go Preset> [176]	:Sets Camera Focus Mode to SEMI-AUTO
<Go Preset> [177]	:Sets Day/Night Mode to AUTO
<Go Preset> [178]	:Sets Day & Night Mode to NIGHT
<Go Preset> [179]	:Sets Day & Night Mode to DAY
<Go Preset> [190]	:Sets OSD Display Mode to AUTO (Except Privacy Mask)
<Go Preset> [191]	:Sets OSD Display Mode to OFF (Except Privacy Mask)
<Go Preset> [192]	:Setting OSD Display Mode to ON (Except Privacy Mask)
<Go Preset> [193]	:Sets all Privacy Mask Display to OFF
<Go Preset> [194]	:Sets all Privacy Mask Display to ON

6.3 PRESET

A maximum of 127 positions can be stored as Preset position. The Preset number can be assigned from 1 to 128, but 95 is reserved for starting OSD menu. Camera characteristics (White Balance, Auto Exposure) can be set up independently for each preset. Label should be blank and 'Camera Adjust' should be set to 'GLOBAL' as default. All characteristics can be set up in the OSD menu.

- Set Preset <Set Preset>[1~128]
- Run Preset <Go Preset>[1~128]
- Delete Preset To delete Preset, use OSD menu.

6.4 SWING

By using the Swing function, you can make camera to move between 2 Preset positions repeatedly. When swing function runs, camera moves from the preset assigned as the 1st point to the preset assigned as the 2nd point in a CW (Clockwise) direction. Then camera moves from the preset assigned as the 2nd point to the preset assigned as the 1st point in CCW (Counterclockwise) direction.

If the preset assigned for the Pan function is same for both point, the camera turns on its axis by 360° in a CW (Clockwise) direction and then it turns on its axis by 360° in a CCW (Counterclockwise) direction.

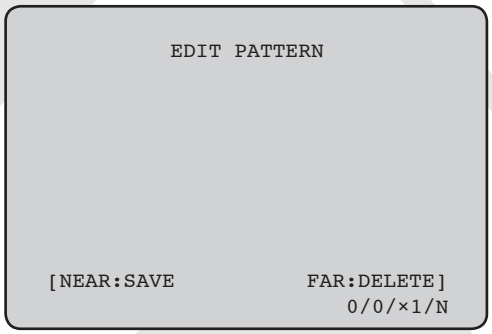
Speed can be set up from 1°/second to 180°/second.

- Set Preset To set Pan, use the OSD menu
- Run Preset Run Swing 1: <Go Preset>[141] Run Swing 2: <Go Preset>[142]
  Run Swing 3: <Go Preset>[143] Run Swing 4: <Go Preset>[144]
- Delete Preset To delete Swing,use OSD menu.

6.5 PATTERN

The Pattern Function allows the camera to follow a user defined trajectory set by a joystick or controller for an assigned time path. 4 Patterns are available and a maximum of 1200 communication commands can be stored per pattern.

- Set Pattern — Pattern can be created by following the steps below:
  - Enter OSD Menu > Pattern Setup
  - Pattern editing screen is displayed as below.



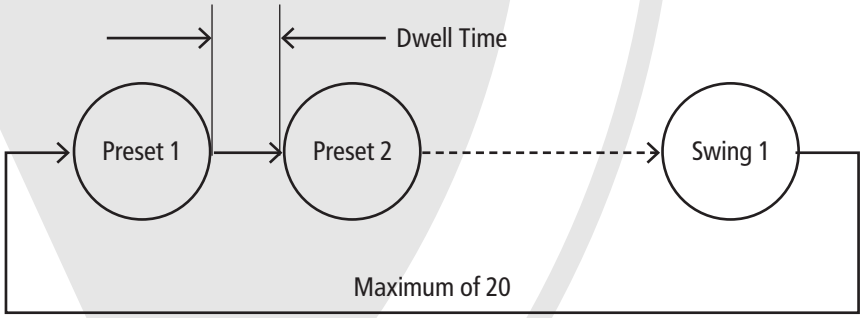
  - Move the Joystick and preset movement will be memorised in a pattern.
  - The rest memory size is displayed in progress bar.
  - To save the recording, press NEAR key and to cancel, press FAR key

- Run Preset — Run Pattern 1: <Go Preset>[131] Run Pattern 2: <Go Preset>[132] Run Pattern 3: <Go Preset>[133] Run Pattern 4: <Go Preset>[134]

Delete Preset — To delete Pattern, use OSD menu.

6.6 GROUP

The group function allows the running sequence of Presets, Pattern and/or Swings. A maximum of 8 groups can be stored. Each group can have a maximum of 20 action entities which can be preset, pattern or swing. Preset speed, the repeat number of Pattern/Swing and dwell times between actions can be set up in Group setup.



- Set Preset — To set a Group, use the OSD menu
- Run Preset — Run Group 1: <Go Preset>[151] Run Group 2: <Go Preset>[152] Run Group 3: <Go Preset>[153] Run Group 4: <Go Preset>[154]
- Delete Preset — To delete Group, use OSD menu.

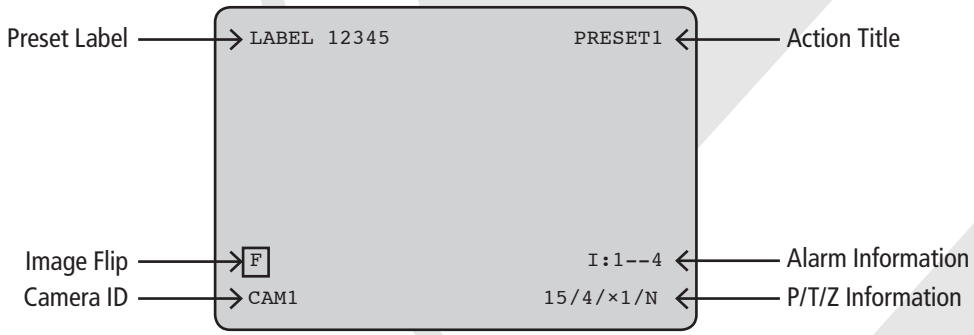
6.7 OTHER FUNCTIONS

- Power Up Action — This function enables to resume the last action executed before power down. Most of actions such as Preset, Pattern, Swing and Group are available for this function but jog actions are not available to resume
- Auto Flip — In case that tilt angle arrives at the top of tilt orbit (90°), zoom module camera keep moving to opposite tilt direction (180°) to keep tracing targets. As soon as zoom module camera passes through the top of tilt direction(90°) images should be reversed automatically and **F** appears in screen. If this function is set to OFF, the tilt movement range is 0-95°.
- Parking Action — This function enables to locate the camera to specific position automatically if operator doesn't operate the controller for a while. The Park Time can be defined as an interval from 1 minute to 4 hours.
- Alarm Input (Optional) — 4 Alarm Inputs are used. If an external sensor is activated camera can be set to move to corresponding preset position. It is noted that the latest alarm input is effective if multiple sensors are activated.
- Privacy Zone Mask — To protect privacy, MAX. 4 Privacy Masks can be created on the arbitrary position to hide objects such as windows, shops or private house. With Spherical Coordinates system, powerful Privacy Zone Mask function is possible
- GLOBAL/LOCAL Image Setup

  WB(White Balance) and AE (Auto Exposure) can be set up independently for each preset. There are 2 modes, 'Global' mode, 'Local' mode. The Global mode means that WB or AE can be set up totally and simultaneously for all presets in 'ZOOM CAMERA SETUP' menu. The Local mode means that WB or AE can be set up independently or separately for each preset in each preset setup menu. Each Local WB/AE value should activate correspondingly when camera arrives at each preset location. During jog operation, Global WB/AE value should be applied. All Local WB/AE value do not change although Global WB/AE value changes.

SemiAuto Focus — This mode exchanges focus mode automatically between Manual Focus mode and Auto Focus mode by operation. Manual Focus mode activates in preset operation and Auto Focus mode activates during jog operation With Manual mode at presets, Focus data is remembered in each preset in advance and camera calls focus data in correspondence, Focus mode changes to Auto Focus mode automatically when jog operation starts.

6.8 OSD DISPLAY OF MAIN SCREEN



- P/T/Z Information — Current Pan/Tilt angle in degree, zoom magnification and a compass direction
- Camera ID — Current Camera ID (Address)
- Action Title — The following are possible Action-Titles and their meaning.
- Preset Label — The Label stored for specific Preset
- Alarm Input (Optional) — This information shows current state of Alarm Input. If an Input point is ON state it will show a number corresponding to each point If an Input point is OFF state, ' - ' will be displayed
  Example: Point 2 & 3 inputs are ON, OSD will show as:

  I: -23-

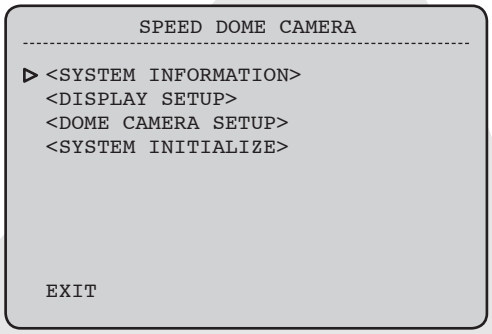
- Image Flip — Shows if images are currently reversed by the Auto Flip Function

7. Menu Functions

General Rules of Key Operation for Menu

- The menu items surrounded with ( ) always has its sub menu.
- For all menu level, to go into sub menu, press NEAR key
- To go to up-one-level menu, press FAR key.
- To move from item to item in the menu, use the joystick in the Up/Down or Left/Right.
- To change a value of an item, use Up/Down of the joystick in the controller
- Press NEAR key to save values and Press FAR key to cancel Values.

7.1 MAIN MENU



System Information: Displays system information and configuration.

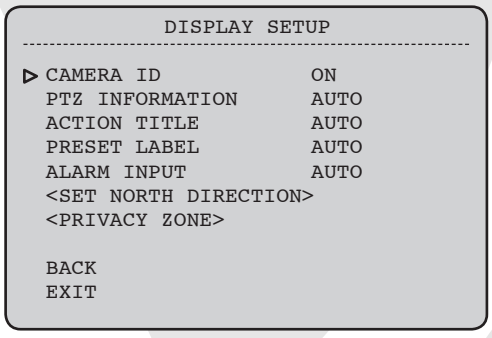
Display Setup: Enable/Disable of OSD display on Main Screen

Dome Camera Setup: Configure various functions of this camera.

System Initialize: Initializes system configuration and sets all data back to factory default configuration

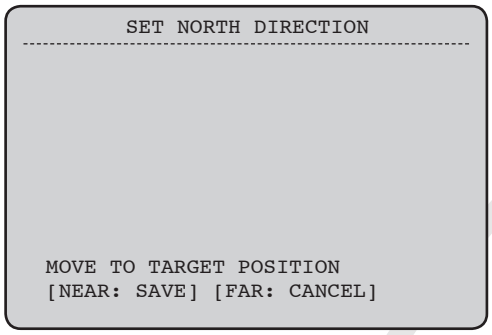
7.2 DISPLAY SETUP

This menu defines Enable/Disable of OSD display on Main Screen. If an item is set to AUTO, the item is displayed only when the value of it is changed.



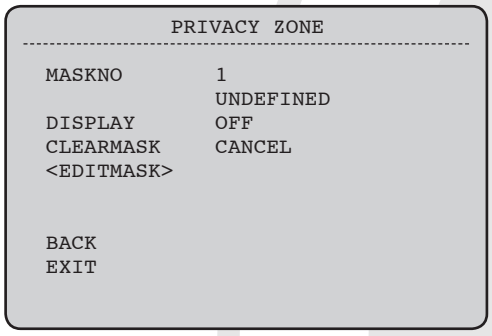
Camera ID: [ON/OFF]
PTZ Information: [ON/OFF/AUTO]
Action Title: [ON/OFF/AUTO]
Preset Label: [ON/OFF/AUTO]
Alarm Input: [ON/OFF/AUTO]

7.2.1 Set North Direction

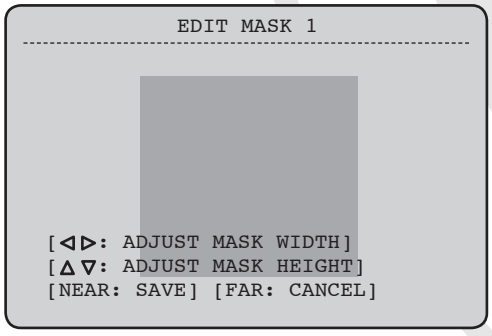


Go to the function <Set North Direction> to assign compass direction to north. Move camera and press NEAR button to save.

7.2.2 Privacy Zone Mask Setup



- **Mask No.** [1~4]
  Select Mask number. If the selected mask has already data camera moves as it was set. Otherwise "UNDEFINED" will be displayed under"Mask No".
- **Display** [ON/OFF]
  Sets if camera mask shows on images
- **Clear Mask** [CANCEL/OK]
  Deletes data in the selected Mask No.
- **<Edit Mask>**
  Move camera to the area to mask. Then the menu to adjust mask size will be displayed.



To adjust mask size, use joystick or arrow buttons to adjust mask size.

- Left/Right Adjusts mask width.
- Up/Down Adjusts mask height.

7.3 CAMERA SETUP

Use this menu to setup the general functions of zoom camera module.

```
          ZOOM CAMERA SETUP
-------------------------------------------------------
▷ FOCUS MODE            SEMIAUTO
  DIGITAL ZOOM          ON
  LINE LOCK             OFF

  <WHITE BALANCE SETUP>
  <AUTO EXPOSURE SETUP>


  BACK
  EXIT
```

Focus Mode: [AUTO/MANUAL/SEMIAUTO]

- SEMIAUTO Mode exchanges focus mode automatically between Manual Focus mode and Auto Focus mode
- Manual Focus mode activates in preset mode. (Focus data is memorized in each preset in advance and camera calls focus data in correspondence with presets as soon as camera arrives at a preset)
- Auto Focus mode activates when jog operation Starts.

Digital Zoom: [ON/OFF]

Sets digital zoom function to ON/OFF. If this is set to OFF, optical zoom function runs but zoom function stops at the end of optical zoom magnification.

Line Lock: [ON/OFF]

If Line lock sync is ON, video signal is synchronized with AC power. Video can be adjusted after setting is changed.

7.3.1 White Balance Setup


```
          WB SETUP - GLOBAL
-------------------------------------------------------
▷ WB MODE               AUTO
  RED ADJUST            ---
  BLUE ADJUST           ---




  BACK
  EXIT
```

- **WB Mode** [AUTO/MANUAL]
  In Manual mode, Red and Blue level can be set up manually
- **Red Adjust** [10-60]
- **Blue Adjust** [10-60]

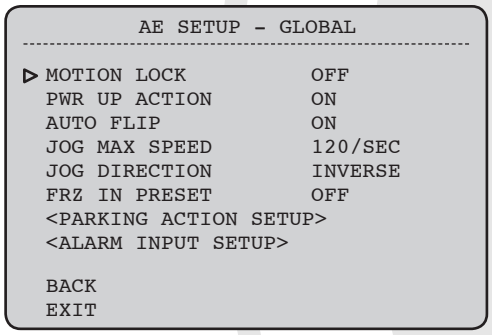
7.3.2 Auto Exposure Setup

```
          AE SETUP - GLOBAL
-------------------------------------------------------
▷ BACKLIGHT     OFF
  DAY/NIGHT     AUTO
  BRIGHTNESS    25
  IRIS          AUTO
  SHUTTER       ESC
  AGC           NORMAL
  SSNR          MIDDLE
  SENG-UP       <AUTO>

  BACK
  EXIT
```

- **Backlight** [ON/OFF]
  Sets Bacldight Compensation
- **Day/Night** [AUTO1/AUT02DAY/NIGHT]
  AUT01 exchanges Day/Night mode faster than AUT02.
- **Brightness** [0-100]
  Adjusts brightness of images. Iris, Shutter Speed and Gain are adjusted automatically in correspondence with this value
- **Iris** [AUTO/MANUAL(0~100)]
  if Iris is set to Auto Iris should have highest priority in adjusting AE and Shutter Speed should be fixed. If Iris is set to Manual, Iris should be fixed aa Iris has lower priority in adjusting AE.
- **Shutter Speed** [ESC/A. Flicker/Manual(x128~1/120000 sec)]
  If Iris is set to Manual and Shutter Speed is set to ESC,Shutter Speed should have highest priority. If Shutter Speed is set to A. Flicker, to remove Flicker, Shutter Speed should be set to 1/100 for NTSC and 1/120 for PAL.
- **AGC** [OFF/NORMAL/HIGH]
  Enhances image brightness automatically if the luminance level of image signal is too low
- **SSNR (DNR - Digital Noise Reduction)** [OFF/LOW/MIDDLE/HIGH]
  Enhances images by deducting noises when gain level of images is too high.
- **SENS-UP (Dynamic Night View)** [AUTO(2-128)/OFF]
  Activates Slow Shutter function when luminance of Image is too dark. It is possible to set up the maximum number of frames piled up one on another by Slow Shutter function.

7.4 MOTION SETUP

Use this menu to setup the general functions of zoom camera module.



Motion Lock: [ON/OFF]

If Motion Lock is set to ON, it is impossible to set up and delete Preset, Swing, Pattern and Group. Otherwise it is only possible to run those functions.

Power Up Action: [ON/OFF]

Refer to "Other Functions" section.

Auto Flip: [ON/OFF]

Refer to "Other Functions" section.

Jog Max Speed: [1/sec - 360/sec]

Sets maximum jog speed. Jog speed is inversely proportional to zoom magnification. As zoom magnification goes up, pan/tilt speed goes down

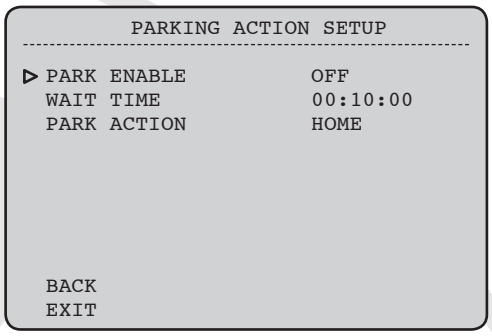
Jog Direction: [INVERSE/NORMAL]

If you set this to 'Inverse' the view in the screen will move in the same direction with jog tilting. If 'Normal' is selected, the view in the screen will move reversely

Freeze in Preset: [ON/OFF]

If set to ON, at the start point of preset movement the camera freezes the image of start point and keeps displaying the image during the entire preset movement. It does not display the images which the camera gets during the preset movement. As soon as camera stops at preset end point, camera starts displaying live images which it gets at preset end point.

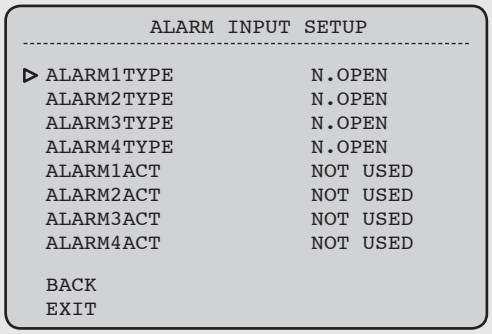
7.4.1 Parking Action Setup



- **Park Enabled** [ON/OFF]
  If Park Enable is set to ON, the camera will run the assigned PTZ function automatically if there is no ''Wait Time'' assigned
- **Wait Time** [1 minute-4 hours]
  The time is displayed in HH:MM:SS" format and you can change this by 1 min units.
- **Park Action** [HOME/PRESET/PATTERN/SWING/GROUP]
  - Home: Camera moves to home position if there is no PTZ command during assigned in "Wait Time".

7.4.2 Alarm Input Setup

Match the Alarm sensor input to one of Preset positions. If an external sensor is activated, the camera will move to corresponding predefined preset position.



- **Alarm Type** [Normal OPEN/Normal CLOSE]
  Sets sensor input type.
- **Alarm Action** [NOT USED/PRESET 1~128]
  Assign counteraction Preset position to each Alarm input.

7.5 PRESET SETUP

Use this menu to setup the general functions of zoom camera module.

```
            PRESET SETUP
------------------------------------------------------------
▷ PRESET NO.            1

  CLEAR PRESET          CANCEL
  <EDIT SCENE>
  <EDIT LABEL>          LABEL123
  CAM ADJUST            GLOBAL


  BACK
  EXIT
```

Preset Number: [1~128]

If a selected preset is already defined, the camera will move to predefined position and preset characteristics such as Label and Relay Outputs will show on the display monitor. If a selected preset is not defined, 'UNDEFINED' shows on monitor.

Clear Preset: [CANCEL/OK]

Deletes current Preset data

Edit Preset Scene: Allows you to edit the current Preset scene position

Edit Preset Label: Edits Label to show on monitor when preset runs. A maximum of 10 letters can be assigned.

CAM Adjust: [GLOBAL/LOCAL]

WB (White Balance) and AE(Auto Exposure) can be set up independently for each preset.

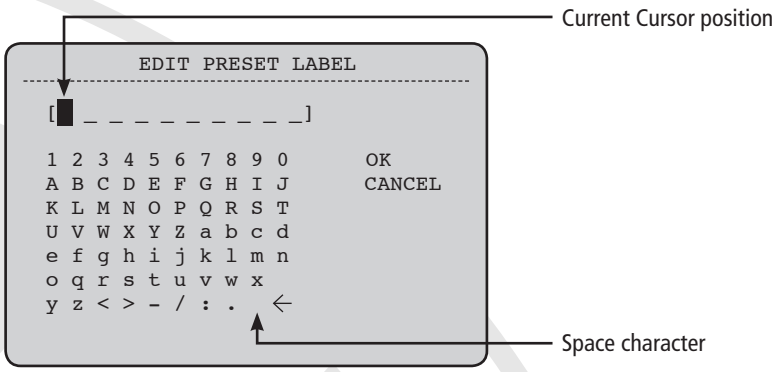
- Global mode means that WB or AE can be set up fully and simultaneously for all presets in the 'ZOOM CAMERA SETUP' menu.
- Local mode means that WB or AE can be set up independently or separately for each preset in each preset setup menu. Each Local WB/AE value should activate correspondingly when the camera arrives at each preset location.
- During jog operation, Global WB/AE value should be applied.
- All Local WB/AE values will not change although Global WB/AE values will change as the settings are changed. If 'Local' is selected 'WB/AE' will show on the Monitor.

7.5.1 Edit Scene Preset

```
          EDIT SCENE PRESET
------------------------------------------------------------









  MOVE TO TARGET POSITION
  [NEAR: SAVE] [FAR: CANCEL]
```

Using Joystick, move camera to desired position. Press NEAR key to current PTZ data. Press FAR key to Cancel.

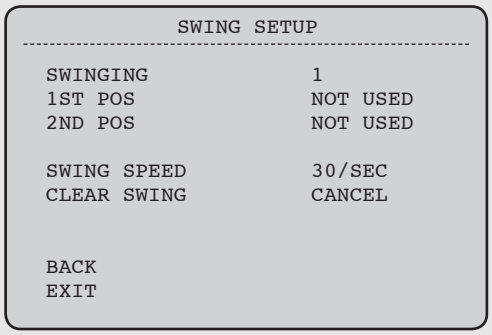
7.5.2 Edit Preset Label


Current Cursor position
EDIT PRESET LABEL
[_ _ _ _ _ _ _ _ _ _]
1 2 3 4 5 6 7 8 9 0
A B C D E F G H I J
K L M N O P Q R S T
U V W X Y Z a b c d
e f g h i j k l m n
o q r s t u v w x
y z < > - / : . ←
OK
CANCEL
Space character

In the Edit Label menu use the Left/Right/Up/Down of the joystick to move to the desired character from the Character set.

- To choose the character, press the NEAR key
- If you want to use blank, choose Space character (as shown in the diagram above)
- If you want to delete a previous character, use the back space character (←)
- If you complete the Label editing, move cursor to 'OK' and press the NEAR key to save the completed label.
- To cancel any changes, move the cursor to 'Cancel' and press the NEAR key.

7.6 SWING SETUP



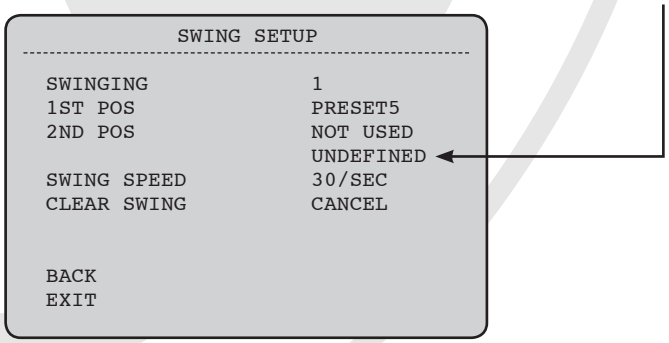
Swing Number: [1~8]

Selects Swing number to edit. If a selected Swing has not been defined, 'NOT USED' will display in 1st Position and 2nd Position

1st Position: [PRESET 1~128]

2nd Position [PRESET 1~128]

Set up the 2ND position for Swing function If a selected preset is not defined, 'UNDEFINED' will be displayed as shown below:



When swing function runs, the camera will move from the preset assigned as position 1 to the preset assigned as position 2 in a CW (Clockwise) direction. Then the camera will move from position 2 to position 1 in a CCW (Counterclockwise) direction.

If the preset assigned as the 1st point is the same as the preset assigned as the 2nd point, the will turn on its axis by 360 in a CW direction and then it turns on its axis by 360 in a CCW direction

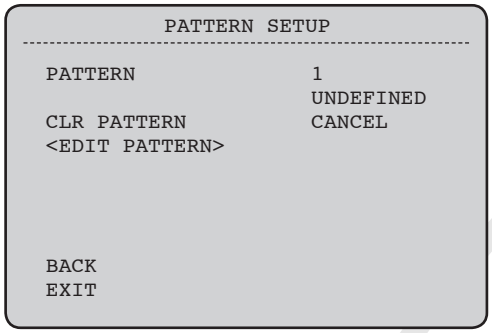
Swing Speed [1 /sec~180 /sec]

Sets Swing speed from I /sec to 180 /sec.

Clear Swing [CANCEL/OK]

Deletes current Swing data

7.7 PATTERN SETUP



Pattern Number: [1~4]

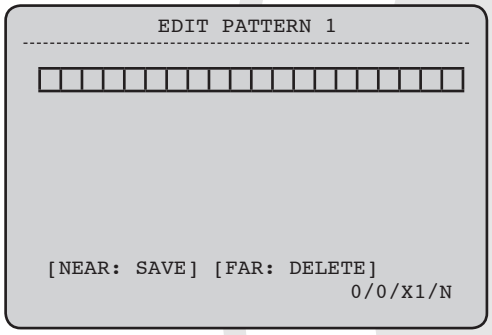
Select Pattern number to edit. If a selected pattern number is not defined, 'UNDEFINED' will be displayed under the selected pattern number.

Clear Pattern: [CANCEL/OK]

Deletes data in current pattern

Edit Pattern: Allows the selected pattern to be edited.

7.7.1 Edit Pattern



- By using Joystick, move to the start position with the appropriate zoom.
- To start pattern recording, press the NEAR key. (To exit this menu, press the FAR key.)
- Move the camera with joystick of controller or run a preset function in a selected pattern which will be recorded.
- The total memory size and the remaining memory size will be displayed in the form of a bar. A maximum of 1200 communication commands can be stored in a pattern
- To save the data and exit, press the NEAR key
- To cancel recording and delete the recorded data, press the FAR key.

7.8 GROUP SETUP

```
            GROUP SETUP
-------------------------------------------------
  GROUP NO.             1
                        UNDEFINED
  CLEAR GROUP           CANCEL
  <EDIT GROUP>




  BACK
  EXIT
```

Group Number: [1~8]

Select Group number to edit. If a selected Group number is not defined, 'UNDEFINED' will be displayed under the selected pattern number.

Clear Group: [CANCEL/OK]

Deletes data in current Group

Edit Group: Allows the selected Group to be edited.

7.8.1 Edit Group

```
            EDIT GROUP 1
-------------------------------------------------
▷NO    ACTION ###      DWELL   OPT
-------------------------------------------------
  1     NONE
  2     NONE
  3     NONE
  4     NONE
  5     NONE

  SAVE
  CANCEL        [NEAR: EDIT]
```

- Press the NEAR key in 'NO' list to start Group setup.
- Note that a maximum of 20 Functions are allowed in a Group. Move the cursor up/down and press NEAR key to set up.

- Set up Action, Dwell time and Option.

```
            EDIT GROUP 1
-------------------------------------------------
  NO    ACTION ###      DWELL   OPT
-------------------------------------------------
▷ 1     NONE
  2     NONE
  3     NONE
  4     NONE
  5     NONE

  SAVE          [NEAR: EDIT ACT]
  CANCEL        [FAR: EDIT END]
```

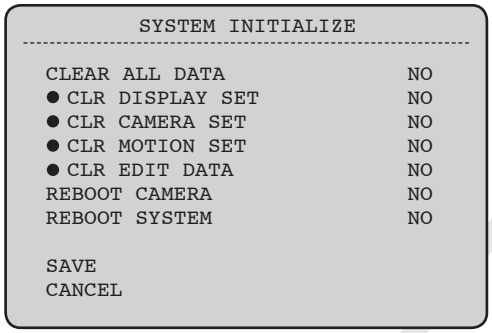
```
            EDIT GROUP 1
-------------------------------------------------
  NO    ACTION ###      DWELL   OPT
-------------------------------------------------
  1     PRESET     1    00:03   360
▷ 2     NONE
  3     NONE
  4     NONE
  5     NONE

  SAVE          [◁ ▷ :MOVE CURSOR]
  CANCEL        [△ ▽ :CHANGE VALUE]
```

Move the cursor Left/Right to select items and move cursor Up/Down to change each value.

- Action ### [NONE/PRESET/SWING/PATTERN]
- DWELL [0 seconds~4 minutes]
  Sets Dwell Time between functions
- OPT (Optional)
  This should be set to the preset speed when in Preset Mode, OR the number of repetitions when in Pattern or Swing Mode is selected.

- After finishing setting up the Action, press the NEAR key to move up one level in the menu. Move the cursor Up/ Down to select another Action number and repeat the above steps to edit the next selected group Action.
- After setting up all the Actions, press the FAR key to exit. Then move the cursor to SAVE then press the NEAR key to save the Group data.

7.9 INITIALIZE SYSTEM



Clear All Data: Deletes all configuration data such as Display, Camera, Motion setup and so on.
Clear Display Set: Initializes Display Configuration
Clear Camera Set: Initializes Camera Configuration
Clear Motion Set: Initializes Motion Configuration
Clear Edit Data: Deletes Preset Date, Swing Data, Pattern Data and Group Data
Reboot Camera: Reboots Zoom Camera module
Reboot System: Reboots Speed Dome Camera

7.9.1 Initial Configuration Settings

DISPLAY CONFIGURATION	
Camera ID	ON
PTZ Information	AUTO
Action Title	AUTO
Preset Label	AUTO
Alarm Input	AUTO
North Direction	Pan 0°
Privacy Zone	Undefined

MOTION CONFIGURATION	
Motion Lock	OFF
Power Up Action	ON
Auto Flip	ON
Jog Max Speed	120°/sec
Jog Direction	INVERSE
Freeze In Preset	OFF
Park Action	OFF
Alarm Action	OFF

CAMERA CONFIGURATION	
Focus Mode	SemiAuto
Digital Zoom	ON
Line Lock	OFF
White Balance	AUTO
Backlight	OFF
Day&Night	AUTO1
Brightness	25
Iris	AUTO
Shutter	ESC
AGC	NORMAL
SSNR	MIDDLE
SENS-UP	AUTO (4 Frame)

MOTION CONFIGURATION	
Preset 1~128	Undefined
Swing 1~8	Undefined
Pattern 1~4	Undefined
Group 1~8	Undefined

8. Specifications

Model:	**XSD10Z-2**
Picture Type:	True Day/Night
Image Sensor:	Sony 1/4" Super HAD CCD
DSP:	Xvision XX1
Resolution:	550/600 TVL
Minimum Illumination:	0.005 Lux
Lens Type:	Auto Iris Varifocal Lens
Lens Size:	3.8 to 38.0mm
Lens Viewing Angle:	10 to 71°
Zoom:	10x Optical, 10x Digital
Audio:	No
Operating Voltage:	12V DC 800mA
Suggested Power Supply:	Supplied
Mounting:	Ceiling (as supplied) Additional mounts & brackets are available for Wall Mount, Corner Mount and Pole Mounting options.
Weatherproofing:	Yes
Dimensions (WHD):	150 x 130 x 150mm

TECHNICAL SUPPORT:

For Technical Support for any Xvision product please contact your local distributor.

LIMITED WARRANTY:

This product is supplied with a 1 Year warranty. The Warranty excludes products that have been misused, (including accidental damage) and damage caused by normal wear and tear. In the unlikely event that you encounter a problem with this product, it should be returned to the place of purchase.

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